

VINAY B

Design Engineer - Tool Designer- Special Purpose Machines

✉ vinayb1994@yahoo.com

☎ +91-7373335249

📍 Hosur, Tamilnadu, India [in linkedin.com/in/vinay-b- 35655a137](https://www.linkedin.com/in/vinay-b-35655a137)



PROFILE SUMMARY

- Goal-oriented professional with over 2.5years of experience in Mechanical Design Engineer.
- Experience in tool design for flywheel magneto, Regulator Rectifier, Ignition coil, Sensor.
- Comprehensive experience in end-to-end product life cycle experience in projects and providing process support to manage engineering data throughout enterprise.

AREA OF PROFICIENCY

- Understanding and Development of system and sub-system requirements based on Customer Specifications.
- Concept Development Engineering Design, 3D Modelling, Conceptualization (AutoCAD & CREO 5.0, SOLID WORKS)
- Fixture design for of flywheel magneto, Regulator Rectifier, Ignition coil, Sensor
- Gauge design for flywheel magneto.
- Engineering Drafting with Geometrical Dimensioning and Tolerance in AUTOCAD as per ASME Y14.5 2009.
- Low-Cost Intelligent Automation, Poka-Yoke.

WORK EXPERIENCE -2.5 years

INDIA NIPPON ELECTRICALS LTD (INEL)-TVS group of company (05/2019- Present)

- Design complex Tooling, Jigs, Fixtures, Functional Gauging and Facilities Equipment utilizing Creo 5.0 & Autocad 2020 for the design work. Involves analyzing requirements and designing items to accomplish desired purpose.
- Design, and Develop a injection moulding tool for sensor component.
- Developed assembly drawings, subassembly drawings and complete Bill of Materials.
- Preparation and reviewing of 2D part and assembly drawings, Release of manufacturing drawings; coordinating & assisting Manufacturing Team.
- Skilled in applying Geometrical Dimensioning and Tolerance as per ASME Y14.5 2009 and 2018
- Fits Selection and Tolerance Allocation as per the required fit in the mechanical assembly as per ISO Standards.
- Good understanding of manufacturing processes like (Lathe, Milling, EDM, Injection Moulding, Sheet Metal).
- Optimization of process parameters to reduce machining time and improve machine efficiency.
- Assists in the development of complex tool and equipment concepts and alternatives.
- Participates in design reviews to identify production related issues and makes recommendations for process improvements for quality product output.
- Implementation of Poka-Yoke system and all safety related facilities involved within the machines.
- Evaluating Inspection data of a tool, altering designs as necessary to bring them to safety, functional performance and efficiency standards.
- An effective communicator with leadership, interpersonal, analytical and problem-solving skills and decision-making skills.
- Good attitude for learning new skills, problem solving methods, etc.

FUNCTIONAL SKILLS

- Working with Cross-functional teams.
- Presenting timely technical design and project status progress to authorities.
- Interaction with suppliers for manufacturing of components like Sheet-Metal, selection of bought out components
- Release of Component drawings for manufacturing and coordination with planning and manufacturing team.
- Interaction with Planning, Manufacturing process and other cross-functional teams for avoiding risks at the early stages of design

PROJECTS

- Fixture design for all flywheel magento, Regulator Rectifier, Ignition coil, Sensor.
- Gauge design for all flywheel magento.
- Thermal Sensor-Machine for curling operation.
- Moulding tool design for sensor component.
- Riveting operation for cup & boss assy.
- Angle drill jig for boss.

ACADEMIC DETAILS

- Postgraduate in Tool Engineering from NTTF, Pennya, Bangalore, KA in 2018.
- B.tech in Mechanical Engineering from VIT UNIVERSITY, Vellore, TN in 2016.

ACHIEVEMENTS

- QUALITY CIRCLE FORUM OF INDIA (10/2019)
KAIZEN presentation from INEL, which Won GOLD Award in the 4th chapter convention on Quality Concept

CERTIFICATES

- Diploma in Product Design (01/2017 – 02/2017)
Diploma in Product Design, CADD Centre Training Services (Hosur)
- Internship program at GABRIEL INDIA LIMITED (05/2018 – 08/2018)
Responsible for detail drawings for fixture.
- Internship program at ASHOK LEYLAND LIMITED (11/2014 – 12/2014)

PERSONAL DETAILS

- Date of Birth: 28th MAY 1994
- Languages Known: English, Tamil, Telugu and kannada
- Current Address: 3/417, BTR STREET, BAGALUR, Hosur, India